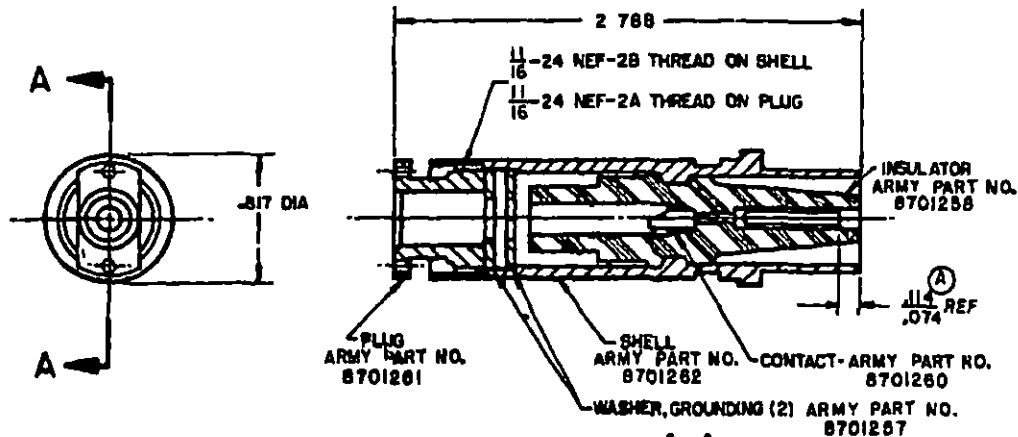


FED SUP CLASS
5935REVIEW ACTIVITIES: DSC-ES
USER ACTIVITIES: ARMY-EL, ME; NAVY-EC, HC, AF-11

SECTION A-A

NOTES:

- THIS PLUG IS DESIGNED FOR USE WITH MIL-C-17/74 CABLE.
- TO ASSEMBLE - REMOVE OUTER JACKET OF CABLE AS REQUIRED, FLARE OUT BRAID. CLAMP BRAID BETWEEN GROUNDING WASHERS BY SCREWING IN PLUG.
- THIS PLUG, WHEN ASSEMBLED TO MATING RECEPTACLE MS 27190 AND USING MIL-C-17/74 CABLE AS CONDUCTOR, MUST WITHSTAND THE FOLLOWING POTENTIALS AND OPERATING TEMPERATURES FOR ONE MINUTE:

PART NO.	POTENTIAL	OPERATING TEMPERATURE
MS 27191-1	17.7 KV	-65°F THRU 125°F
MS 27191-2	20.0 KV	-65°F THRU 160°F
- COAT INTERNAL AND EXTERNAL SURFACES OF INSULATOR-ARMY PART NO. 8701258 WITH SILICONE COMPOUND MIL-S-8660 PRIOR TO FINAL ASSEMBLY. THE INSULATION RESISTANCE SHALL BE MEASURED PRIOR TO THE APPLICATION OF ANY SILICONE COMPOUND.
- MS 27191-2 SHALL HAVE AN INSULATOR CONFORMING DIMENSIONALLY TO 8701258 EXCEPT MATERIAL SHALL BE RUBBER MOLDED GRADE RS 820 A₁B₁C₁F₁ MIL-R-3065. INSULATION RESISTANCE SHALL EXCEED 5(10)⁴ MEGOHMS WHEN TESTED IN ACCORDANCE WITH MIL-STD-202 METHOD 302 TEST CONDITION-B.
- TO SECURE THIS ASSEMBLY TO MATING RECEPTACLE, USE EITHER NUT-ARMY PART NO. 7527644 IN CONJUNCTION WITH RETAINING RING - ARMY PART NO. 8701259 OR NUT-ARMY PART NO. 8369021.
- THREADS SHALL BE IN ACCORDANCE WITH SCREW THREAD STANDARDS FOR FEDERAL SERVICES HANDBOOK H28.
- DIMENSIONS ARE IN INCHES AND ARE FOR ENGINEERING REFERENCES ONLY.
- FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
- THIS STANDARD IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN AS SHOWN HEREON BY DIMENSIONS, NOTATIONS, AND REFERENCED DOCUMENTS.
- REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
- MARKING SHALL CONSIST OF THE MS PART NUMBER AND MANUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH MIL-STD-130.
- USE OF SHELL ASSEMBLY 11654592 IS OPTIONAL.
- REFERENCED ARMY DRAWINGS MAY BE OBTAINED FROM U.S. ARMY TANK-AUTOMOTIVE COMMAND, WARREN, MICHIGAN 48090.

MS PART NO.	FORMER ARMY PART NO.
MS 27191-1	8724317
MS 27191-2	NONE (SEE NOTE 5)

P.A. Other Cont	ARMY-AT	TITLE CONNECTOR, PLUG, ELECTRICAL — HIGH VOLTAGE, WATERPROOF	MILITARY STANDARD MS 27191
PROCUREMENT SPECIFICATION NONE	SUPERSEDES:		SHEET 1 OF 1

DD FORM 672-1 (Continued)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

This military standard is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 9 FEB 1982 REVISED 30 SEPT 1969 17 SEPT. 1975